

November 18, 2005

HYDROWORKS, LLC
GRAHAM BRYANT
525 BOULEVARD
KENILWORTH NJ 07033

WAUSAU CONCRETE CO.
COUNTY MATERIALS CO.
JIM LUEDEKE
240 HWY29W
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MARATHON WI 54448

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: WAUSAU CONCRETE CO.
Product Name: HYDROWORKS, HG 6 (HYDROGUARD)
Model Number(s): HG6
Product File No: 20050829

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of November 2010.

This approval is contingent upon compliance with the following stipulation(s):

- The review undertaken by Commerce staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table Comm 82.70-1.
- This product is expected to produce an effluent that has less than 60 mg/L TSS for subsurface infiltration/irrigation with stormwater as the source when the influent (at 200 mg/L) and the maintenance meets the conditions listed in Table 1, entitled Stormwater and Clearwater Treatment for Hydroworks, Hydroguard HG 6.

Table 1
Stormwater and Clearwater Treatment for
Hydroworks, Hydroguard HG6

Hydroguard Series Model a	Maximum Flow in cu. ft./sec.	Suspended Solid Equivalent b	Specific Gravity of Test Material	Maintenance Interval in Months
HG 6	4.0 cfs	US Silica Sil-Co-Sil 106	2.65	12 or when TSS depth = 30"

a See Hydroguard Technical Manual (ver. 1.7; pg. 8 Figure 5).

b Where >90% particles are smaller than 75 μ m.

* This table is based on influent having 200 mg/L TSS.

- Labeling: The Hydroworks, Hydroguard series is permanently labeled as follows (as listed in HG Series Labeling Details, ver. 1.0):
 - 1) The Hydroworks logo and coding numbers are painted on the mono-base (each manhole riser); the coding indicates the project, structure ID/location and stacking sequence for installation purposes. Labels generally are painted twice on the product at 180 degrees apart.
 - 2) The model number is not painted on either product, but the model series corresponds to the diameter of the mono-base; for example, the Hydroguard HG-6 has a 6-ft. diameter.
- This product must be installed in a department-approved tank that meets the design criteria for this product, as specified by Hydroworks.
- Installation-- The installation of this product shall maintain a working emergency overflow or outlet pipe. Each installation shall conform to Hydroguard Installation Instructions (ver. 1.0).
- Maintenance: The Hydroworks, Hydroguard series maintenance is as follows (as listed in Hydroworks Hydroguard Technical Manual, ver. 1.7):
 - 1) In addition to a 12-month maintenance interval for stabilized sites, inspection is provided via an access cover where TSS depth measurements maybe made after each large storm event.
 - 2) Visual inspection of floatables may be made via the access cover.
 - 3) For parking lots and stabilized sites, a 24-month interval is recommended for grease and oil removal.
 - 4) TSS and trash removal may be made using a vactor truck.
- Inspection and maintenance of each installation of this product shall be conducted when the TSS/sediment reaches 30 inches or when floatables or oils cover > 50% surface. Anticipated maintenance intervals are 1 to 2 years.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Jean M. MacCubbin, CST
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